

5 April 2005

SciFinder

10/530437

B1

JC06 Rec'd PCT/PTO 06 APR 2005

Page: 1

Bibliographic Information

Grinding aids for crystalline materials and for hydraulic binders. Aymard, Alain; Joseph, Christian. (Manufacture de Produits Chimiques PROTEX S. A., Fr.). Fr. Demande (1982), 19 pp. CODEN: FRXXBL FR 2485949 A1 19820108 Patent written in French. Application: FR 80-14877 19800701. CAN 97:132435 AN 1982:532435 CAPLUS (Copyright 2005 ACS on SciFinder (R))

Patent Family Information

| <u>Patent No.</u> | <u>Kind</u> | <u>Date</u> | <u>Application No.</u> | <u>Date</u> |
|-------------------|-------------|-------------|------------------------|-------------|
| FR 2485949 | A1 | 19820108 | FR 1980-14877 | 19800701 |
| FR 2485949 | B1 | 19841207 | | |

Priority Application

| | | |
|---------------|---|----------|
| FR 1980-14877 | A | 19800701 |
|---------------|---|----------|

Abstract

The grinding agents for cement, clinker, and gypsum are $R_1R_2N(CH_2)_x[NR_3(CH_2)_y]_nNR_4R_5$, where n is 0-5, y and x are 2-6, $R_1 = CH_2CH_2OH$, $CH_2CH(OH)Me$, or $CH_2CH(OH)CH_2CH_3$, and $R_2, R_3, R_4, R_5 = H, CH_2CH_2OH, CH_2CH(OH)Me$, or $CH_2CH(OH)CH_2CH_3$. They are used as solns. or aq. dispersions at rates of 0.005-0.05% per dry wt. of the material being ground. Two suitable agents are wastes from aminoethylethanolamine manuf. having the following comps.: monoethoxylated, diethoxylated, dimethoxylated, and tetraethoxylated ethylenediamine 9 or 0; 45 or 48; 25 or 27; and 21 or 25%, resp.